



Using Permeable Reactive Barriers to address Nitrogen Pollution

by Ed Nash

On 4/5/17 I went to a meeting on the title subject. It was well attended by County Staff, engineers, environmental groups, towns and stakeholders.

There are currently three experimental barriers being installed as part of the 208 Water Management Plan. Falmouth, Dennis and Orleans are in the process. Each barrier will cost up to 2 million dollars to install and monitor over the next five years. If they work well, 75% of the nitrogen could be removed from a groundwater plume. That could reduce the cost of traditional sewerage in some areas and save money.

The process of cleaning up our groundwater will be a long and expensive project. We have done our part by reducing nitrogen and phosphorous use. I will keep you posted when there are other ways that we can help.

And there are other ways, but that will be for another article...

Permeable Reactive Barrier

A permeable reactive barrier (PRB) is an in-situ (installed within the aquifer) treatment zone designed to intercept nitrogen enriched groundwater. Through use of a carbon source, microbes in the groundwater uptake the nitrogen, denitrifying the groundwater. There are two methods of installing PRBs: trenching and injection wells.

5:12 Preliminary Technical Guidance for Non-Traditional Water Quality Improvement Technologies www.CapeCodCommission.org

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EDITOR'S NOTE: *The Sand Blaster* is produced bi-monthly as an informational service to its members. Printed material does not suggest the views, attitudes or recommended practices of GCSACC, the board members or its associated committees. Industry-related articles are always welcome to be considered for publication. Articles, as well as address and/or position changes, may be sent to Julie Heston at 401-934-9901 (fax) or jheston@verizon.net.



President's Message

Another spring is upon us and it's nice to get that first golf outing of the year under our belts. The GCSACC hosted the annual Bear Cup at the Country Club of Halifax where Edward Gianni and his staff did an excellent job despite the non-stop rain for the past few weeks in our area. The GCSACC won the match and will hold onto the trophy for another year.

The Board of Directors has been working on new ideas to spice up our newsletter so I would like to bring some of those to your attention. We are going to do a "getting to know the superintendent" profile for each superintendent that hosts an event. Also, we are offering a free monthly meeting to any member that is willing to write an article for the newsletter. Members would love to hear what is going on at other courses or to hear from vendors about what they are seeing in their travels. Hopefully there will be some participation from all of you.

We have a nice slate of events coming up in the near future with the first one being our 30th Annual John O'Connell Scholarship and Research Tournament to be held May 31st at Cummaquid Golf Club. This is our big fundraiser so donations of any kind are much appreciated. In addition to other events, the GCSACC is celebrating 50 years as an association and will be holding a special golf outing in September at New Seabury. We are working on the date and will get that out to you as soon as possible.

I hope everyone has a great spring and I look forward to seeing you all at the Scholarship and Research Tournament next month.

Regards,

Brian



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"INSIDE THE LEATHER"

- Our condolences are extended to Scott Godfrey and family on the passing of Scott's father, Paul Godfrey, on March 7, 2017.
- We are looking for photos of our member's courses for the website. If you would like to have your photo on the website, please email them to Julie at jheston@verizon.net.
- If your club or company has been recognized or awarded a distinction, please send us an email at jheston@verizon.net or seyman60@gmail.com. We will mention it in an upcoming edition of *The Sand Blaster*.
- Just a reminder that you can obtain a USGA GHIN number through GCSACC. There is no fee for this. Please contact Julie Heston if you are interested.
- The GCSACC Board is looking for volunteers to help the board with tasks and serve on committees. If you are interested, please contact Brian Smoot at briansmoot32@yahoo.com
- GCSACC is looking for a volunteer to be our GCSAA Grassroots Ambassador. If you are interested or want to find out more about this program, please contact Kevin Doyle at kdoyle@gcsaa.org.

April 10, 2017

Country Club of Halifax – Host: Ed Gianni, CGCS

Cape Cod retains the Bear Cup

1st low net - Frank Hancock and Ed Downing

2nd low net - Garrett Whitney and Joe Deely

3rd low net - Dave Stott and Bob Kingsbury

1st low gross - Ed Gianni and Kurt Calderwood

CTP Hole 3 - Pat Hogan, Hole 16 - Dave Stott



L-R: Tom Harrington with our host Ed Gianni holding the Bear Cup



Reminder: Alumni Turf Group - The 13th Annual Dr. Joseph Troll Turf Classic

May 15, 2017

GreatHorse Golf Club, Hamden, MA

Host: Dave Rafferty, Golf Course Superintendent

Honoree: Brian Silva

GreatHorse is a world-class private club located in the small town of Hamden, Massachusetts. The Brian Silva's design incorporates unparalleled amenities, natural wetlands, mountain views, and over 200 bunkers. The championship tees offer golfers over 7,500 yards of pristine golf action.

For more information, please contact:

Dave Pease, Executive Secretary

Alumni Turf Group

www.alumniturfgroup.com

Northeast Golf & Turf Supply Wins 3 Rain Bird Golf Awards for 2016.

Peabody, Massachusetts – February, 2017

Northeast Nursery of Peabody, Massachusetts is pleased to announce that its subsidiary, Northeast Golf & Turf Supply has been awarded 3 prestigious Rain Bird Golf awards for the year 2016.

The Rain Bird Don Parker Service Award, named after a Rain Bird employee that set the highest standard of excellence and service in the golf course irrigation business, was awarded to Greg Hennessy and Tom Hoffer in recognition of their outstanding service capabilities and achievements during 2016.

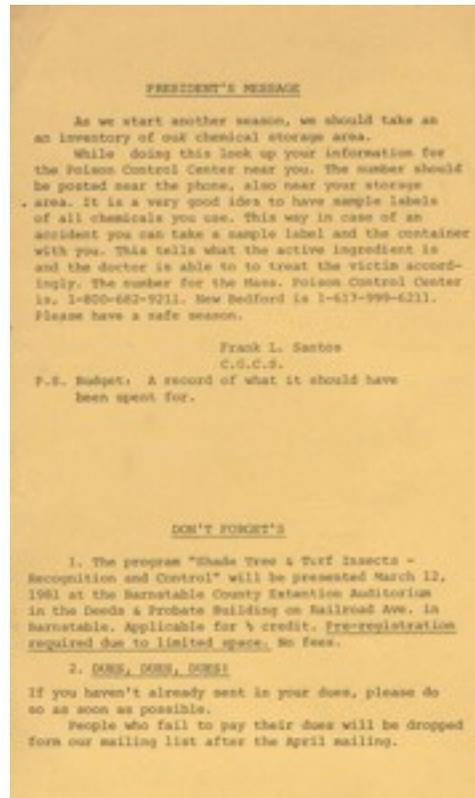
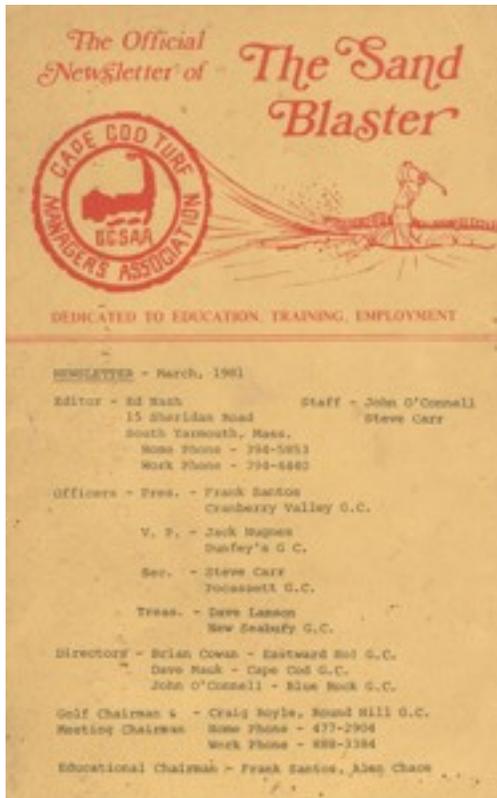
The Rain Bird Top Flight Award is given to multiple distributors both nationally and internationally for their performance in sales and service for the given year, and was awarded to Northeast Golf & Turf Supply for the year 2016.

Lastly, Northeast Golf & Turf Supply was given the prestigious Rain Bird Distributor of the Year award which recognizes the top performer among all Rain Bird distributors worldwide.

According to Bill Stinson, Golf Irrigation Manager, "These awards are a reflection of the enjoyment we get helping our Rain Bird customers maximize their irrigation systems and conserve water on a daily basis. We all find it meaningful to help golf courses be good environmental stewards."

Blast from the Past

Since GCSACC is turning 50 this year, we will be highlighting articles from past newsletters in each issue of The Sand Blaster.



March 1981

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Blast from the Past

Since GCSACC is turning 50 this year, we will be highlighting articles from past newsletters in each issue of The Sand Blaster.

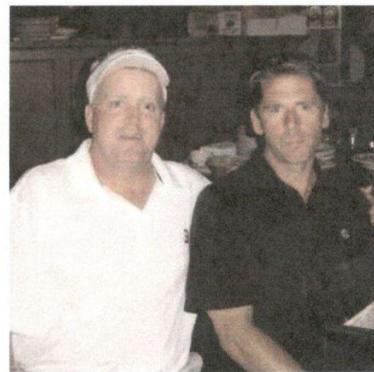
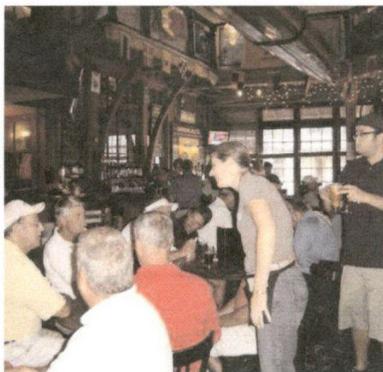
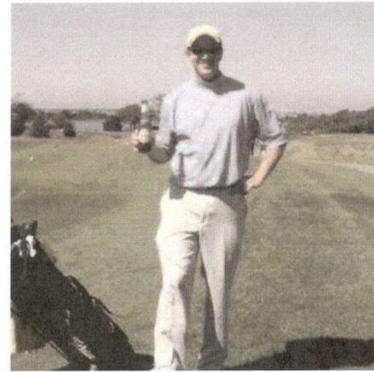
September 20, 2007 - Individual Quota Tournament

**Mink Meadows Golf Course and Edgartown Golf Club
Hosts: Matt Crowther, CGCS and Manny Debettencourt**

Prize List:

1st Place: Greg Misodoulakis • 2nd Place: Greg Barker • 3rd Place: Todd Hugill
4th Place: Mike Turner • 5th Place: Scott McLeod • 6th Place: Joe Deely
7th Place: Jim Fitzroy • 8th Place: Matt Crowther

Long Drive: Joe Felicetti
Closest to the pin: Larry Anshewitz
Closest to the pin: Joe Deely



September 2007



20 Years and Still Sprouting!

By: Gary Sykes

Recently, we ended our 20th annual turfgrass conference and show. Amazing how the time has gone by so rapidly. In those 20 years we have had only one major snowstorm, listened to 19 keynote speeches, taught more than 1200 hours of turfgrass education, witnessed more than 300 hours of trade show, printed nearly 50,000 badges, have probably enjoyed more food all over Providence than we can imagine, sipped thousands upon thousands of cups of coffee and only heaven knows how ounces of liquids were consumed! We have seen the show, like the industry, peak in early 2000s, and like the industry, struggle to keep up with the expectations as economics seem to slam the brakes on life and business no matter how hard you worked to keep it moving. It may have not been the journey we would have planned, but when was the last time a plan all worked out perfectly? It is what it is.and as the great Yogi Berra once said, “the Future ain’t what it used to be!” Either way, it is something we should look forward to throughout life.

Since the show’s inception we can accurately announce that we have surpassed the \$2 Million mark in research funding as an organization. No fake news here! More than 70 research projects have been funded, testing equipment has been purchased or built and the foundation proudly contributed \$175,000 into the construction of a “cutting edge” research building (pun intended). Not half bad for an organization that was starting from scratch with more ideas than money. So, congratulations to all the New England Turfgrass Industry supporting the 20 years of events that has allowed this amazing landmark to be achieved and shared.

So, here we are planning already for our 21st conference and show. But for the 20th, we had good solid attendance again for seminars Monday and Tuesday. We were very happy with our pre-registrations; the USGA session had a great feel to it including the attendance. Our appreciation and big thanks goes out to Jim Skorulski and the USGA for a great traditional kick-off to our education sessions. Once in a while we hit a homerun with our keynotes. Everyone I spoke to thought Major Dan Rooney was one of the best we have ever had. A patriot, a pilot, a good player and a parent, all of which he shared a great passion and appreciation for. What he and his organization, assisted by the game of golf, are doing for dependents of our wounded and KIA soldiers is phenomenal. It was great to see him interact especially with veterans in attendance as they shared their experiences. He’ll be hard to equal never mind top!

Wednesday, as it always is, was of high value for education, exhibitor time, and networking. Right out of the gate the morning had a great amount of energy, and the day was full of information opportunities for many areas of the industry. We appreciate that many take advantage of the gathering especially on Wednesday. UMass has its Alumni Breakfast, NESTMA had a full annual meeting, NESPA had a good turnout of sod producers. Some of our vendors do sales/support training during the off hours of the show. The show has become a functional entity in many ways for a large part of the industry. We end the day with some fun at the auction and a large social event at the Omni. From there many head to their favorite spots to continue a high quality evening!

Attendance naturally drops off on Thursday, but offers an opportunity for some to visit exhibitors without many of the distractions of the previous two days and take advantage of it. On Thursday, the education program is at its highest quality and this year it had good solid attendance again and fulfilled expectations. Before you know it though, it is time to pack the vehicles and head for the barn. And, they do!

We also tried two new approaches to introduce the industry to possible newcomers. Hoping to sprout some interest...with the help of Michelle DaCosta and UMass, veteran’s groups were contacted to invite those interested individuals to come and learn about careers in the turf industry. Some did take advantage of it. We hope to continue to reach out to veterans in the future. We also invited many high schools in CT and MA that might have students interested in an outdoor career. We shared information, opportunities, what the requirements are and the pleasures of being in an industry such as ours. These will be areas we will continue to support in the interest of the industry. We thank you all for your support and dedication to our great industry and to 20 years of shows! Now, on to the Future!.....Mark the Calendar: March 5-8, 2018!

Seen at NERTF 2017



Seen at NERTF 2017



The VTGCSA Continues Win Streak at the Nor'easter Cup! Nor'easter Ski Day Recap at Killington

For the third time in a row, the host team from Vermont won the Nor'easter Cup at Killington Ski Resort in Killington, VT! After a rough winter in 2016 that saw the event postponed due to no snow, Vermont wasted no time in defending their title in excellent skiing conditions!

Nine golf course superintendent associations from the Northeast competed at the annual event on February 16th, where more than 100 superintendents and industry representatives, along with their families came together for a day of camaraderie, great skiing and friendly competition on the slopes of Vermont. The staff at Killington Mountain's Racing School was so impressed with the skill level of the golf experts, so they set up an even more challenging course this year on their black diamond "Highline" race trail, just a few hundred feet away from where the women's World Cup event was held in November!

While several association have clearly been practicing over the winter and putting the pressure on the host team, Vermont's group, led by the fastest male of the mountain James Writer, defeated archrival Northeastern by 9 seconds! The flat-landers from NJ were an impressive 3rd place placing 2 of their racers in the top 6 overall!

Conditions were just perfect this year with several Nor'easters dropping powder leading up to the February event. Race conditions were described as firm and fast for the 2-run giant slalom race! Each team totaled their fastest four racers and prizes were given out to the fastest overall male and female skiers and boarders! Vermont also successfully defended their title over the Northeastern group in the VT Cup, a rivalry that dates to 1993!

If the skiing and racing did not provide enough excitement for folks, then the Après Ski party at the Wobbly Barn proved a fine ending to a competitive day on the slopes. Support from our generous sponsors helped the folks at Killington provide great food and an open bar for a few hours after skiing. Proving this is the place to be during the winter, Killington provided highly discounted ski passes for the group and affordable pricing on lodging! Make sure to watch for dates for 2017 and join your associates for a great day on the slopes during the off-season!!

For the die-hard skiers, it was just announced that Killington will once again host the Women's World Cup for the next two winters over the Thanksgiving holiday weekend after an excellent event in 2016!

As in years past, this event also serves as fundraising opportunity to help support our industry members in times of need. Over the past several years, proceeds from the Nor'easter Ski Day have helped with donations to fellow superintendents in times of need, from medical issues to times of natural disasters. The event has raised thousands of dollars so far and this year we are pleased to have increased that number by over \$1,000 again in 2017. If you want to send us a message recommending someone in need, please do so to any of the board members, otherwise we'll start a savings account for future needs.

We are all fortunate to be associated with such great folks and we encourage all of you to join us next year as we continue to use the event to help our own. Thanks to all that donated so generously and special thanks to Augie Young of Sipcam, Wes Bishop of Reliable Racing and Scott Watelet from Northern Ski Works who generously donated to our raffle!

Special thanks to Chris Cowan who took some great photographs at the event. Photos of the race day can be viewed at: <https://www.flickr.com/photos/115122615@N07/albums/72157679762673642>

The Nor'easter Ski Day was made great because of the overwhelming support of its sponsors! We would like to thank the following companies for their help in making this event a huge success;

Platinum Sponsors: Syngenta, Jacobsen, MTE Turf Equipment and Vermont Precision Real Grinding.

Gold Sponsors: BASE, Sipcam Rotam, Toro, Turf Products and Grassland.

Silver Sponsors: Atlantic Golf & Turf, GenNext, Aquatrols, Seeton Turf, Koch Turf & Ornamental, Northeast Golf & Turf Supply, Rain Bird, New England Specialty Soils, Sunbelt Rentals, Harrell's and Winfield.

Bronze Sponsors: Bayer, DOW Agro Sciences, Valley Green, FMC, Nufarm, Putnam Pipe, Winterberry Irrigation, Grigg Brothers, Quali-Pro, VTGCSA and The Northeastern GCSAA.

Special thanks go out to the folks at Syngenta for supplying everyone with great t-shirts that are sure to become collector's items over the years!

Hope to see you next winter on the slopes!!!

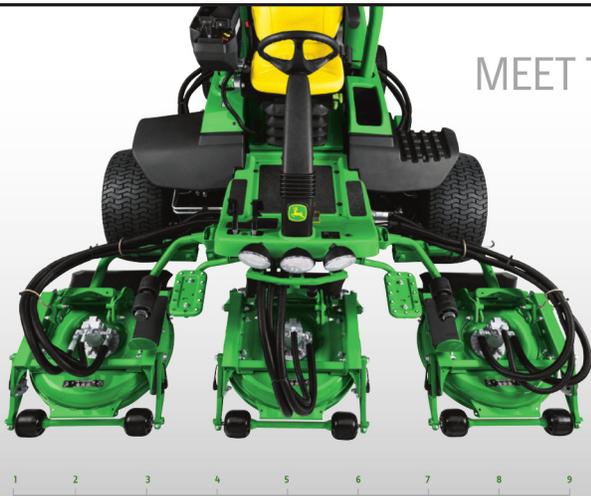
Andy Drohen



The New England Regional Turfgrass Industry would like to express our sincere condolences on the passing of Danny Calise who for 12 years powered the New England Regional Turfgrass Conference and Show Live Auction, with Manny Mihailides, teaching participants that the way into your pocket for a good cause is through your heart. Make them friends, make them laugh a bit, then make them pay and always do it with a smile was his method. We will miss his presence, but we will forever appreciate the opportunity we got to know him and enjoy him. Wherever Danny went, there always seemed to be a crowd made up of family and friends. His door was always open. So, if and when we get to the Pearly Gates, and if they are missing, we just might find out that Danny convinced God that the gates should be open to everyone and so he might as well let Danny auction them off! God-Speed to our friend....Danny Calise!



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Response to the Response About the Response

Wading Through DEP's Water Management Act 20 Year Permit Renewal

By: Rick Lawlor, CGCS

At my last writing the Town of Yarmouth had just received a response from MA DEP for clarification on our response to their Order to Complete. This results from the fact that the water regulators know very little about the business of golf course maintenance. After we responded to their response to the Order to Complete and responded to their response for clarification, the MA DEP responded by issuing a Draft Permit for the Town of Yarmouth granting the requested volume increase, but there was a catch. Of the six items submitted by us as proposed mitigation ("you know, a little something for the effort") MA DEP rejected en masse and demanded that the Town of Yarmouth would become a Certified Audubon Cooperative Sanctuary Site within an eight year period. So it is written, so it shall be.

From their own marketing materials, "The **Audubon Cooperative Sanctuary Program for Golf** is an award winning education and certification program that helps golf courses protect our environment and preserve the natural heritage of the game of golf." Of the 415 golf courses in the Commonwealth of Massachusetts there are 14 which have achieved this distinction. I have no problem with the organization, or its program. The Town of Yarmouth has been a member of AI for more than ten years. When I applied for certification, I was amazed at the terms and conditions to achieve certification. This is a costly, consuming process which goes on (\$) until the golf course discontinues the agreement with AI. It is understandable why 12 of the 14 golf courses certified in this state are "high-end" private businesses.

So how did MA DEP come up with this program as the only mitigation requirement which they will accept for the purpose of granting increased water volumes from renewing permittees? That's right permit holders, if you need to increase your water volumes after completing the 20 Year Renewal Process with MA DEP, you will agree to become an AI Certified Sanctuary Site as mitigation for the increase. AI has been around for thirty years and has been recognized by US EPA as the leader in environmental education and sustainability worldwide. Like public regulations there is a trickle effect: FEDERAL to REGION to STATE to COUNTY to MUNICIPALITY. If it's okay for the FEDS, it's okay for MA. It is noteworthy that most of the operational funding of AI for the last thirty years has been provided by the golf business. So we go with it, for the time being.

One important reminder to the reader, Yarmouth Golf was permitted to withdraw 44 MGA on their existing permit. However, it historically withdrew 57 MGA without tripping any MA DEP alarms. This was an accepted past practice. With circumvent pressure from the (FEDS) Clean Water Act, MA DEP knew that they had a problem and postponed the 20 Year Renewal Cycle in 2010 until they could figure out the procedure to assist permit holders and forewarn them of the necessity for compliance to the agreed volumes from here on. You go over, you pay (mitigate).

Currently MA DEP has notified all other WMA permit holders in the Cape Cod water basin of the proposed permit volume increase and published the Town of Yarmouth's Draft Permit for further public review allowed during a mandatory thirty day period. If this process goes without a hitch, our "new" permit for 65 MGA should be here for the summer.

Continued next issue: *Educating the Regulators*

Blurbs:

- The GCSACC Bylaws will be amended as proposed by the BOD after a favorable vote of the general membership at the April Meeting.
- Want to give back? Volunteer to help the BOD. Contact Julie Heston. ; -)
- The BOD has created a letter which will accompany all new and renewed memberships. It pertains to the terms for registering for meetings on time, no refund policy and serve notice that it is unacceptable for a member to bring a guest to any function without first receiving permission from the BOD.
- Julie Heston proposed to have the website updated to make it more mobile friendly. The BOD was all in favor of expensing the money necessary to make this change. Check out the changes coming soon.
- We wish all the best to Frank Duda who has left Miacomet GC for another job. Frank was our Grass Roots Ambassador to GCSAA. He needs to be replaced for our region to continue government relations work with GCSAA. This is a great opportunity to get involved. Contact Julie Heston.
- The Golf Committee is considering a Superintendent - Assistant Meeting in the early fall. Contact Ed Gianni to give him your thoughts and support in this new venue.
- GCSAA 50 States by 2020: MA BMP On Board. The GCSACC and GCSANE have coordinated and created a steering committee for the development of Massachusetts Best Management Practices using the Planning Guide and Template developed by the GCSAA and launched at their 2017 GIS and by the NERTF at their Turf Show. The committee members are: Don Hearn, CGCS (GCSANE); Peter Rappoccio, CGCS (Concord CC); Don D'Errico (Spring Valley CC); Greg Cormier, CGCS (Tom Irwin); Rick Lawlor, CGCS (Yarmouth Golf); Charlie Passios, CGCS (TGC at Sacconneset) and Ed Nash, retired. Could this help us with the regulators? Stay tuned to the *Sand Blaster*.



Kevin's GCSAA Corner

By Kevin Doyle, GCSAA Northeast Field Representative

If there is one consistent part of our industry, it is transition. Seasons change both environmentally and within the business of being a superintendent. We are transitioning out of a busy education season into facilities opening, handling staff and weather challenges, and chapter meeting and events. Just because golf begins doesn't mean education is put on hold.

In a conversation with one superintendent, he told me that attends almost every meeting and plays golf when he attends. "I always try to take three things back to my facility from every meeting." He explained that through education offerings, conversations with peers, and paying attention to the maintenance practices on a colleague's course, the fact is, he never struggles to find three items to justify his attendance. He also makes a point to discuss what he learned with his employer. "We host a chapter education event every year, so my boss understands there is more to our job than standard agronomic practices. He sees that we learn from each other."

I have seen meeting attendance increase slightly at chapter events across the region in the last couple years. Chapter boards continue to look for a magic bullet to drive you, the members, to meetings. If there was one, they would have been using it! I've written about it before in this newsletter: all attendees are a resource for others. The value to all members is increased by your attendance!

That point was driven home at a recent chapter strategic planning session. This chapter will be looking to engage members who they have not seen at a meeting or event in a while. It will not be an easy goal to achieve. The board is convinced that members who attend a meeting find more value in their association, and are more inclined to engage other chapter events. The board understands that they must reach out, and actively promote and invite members to attend. Has anyone done that for you lately? Would you come to at least one more meeting if someone asked directly if you would attend?

Another colleague spent a long portion of a visit telling me how golf course superintendents need to play the game of golf. We should understand the rules, be aware of course markings, engage our customers and members and discuss the sport on every level. We are employed because of the game of golf; explain to those you answer to how important it is to attend meetings and play.

There will always be one or more reasons to not go to a chapter meeting. If you attend regularly, thank you. I know I have benefitted because you were a part of the event. If you have not made a meeting in a while, please consider breaking that habit even just one time this year. Someone will benefit from information you share, and I am willing to bet that you will gain a lot from being there, no matter where "there" is!

GCSAA Resources and Deadlines

you Get Cool Stuff from your Association Already:

How your Equipment Manager can get you an R&R credit!

GCSAA has partnered with R&R Products to bring a special rebate program to GCSAA members. Current EM members who pass one Turf Equipment Technician Certificate Program exam will receive a \$95 rebate from R&R Products to be used towards your next R&R Products purchase.

This program expires on Dec. 31, 2017, so take advantage of this opportunity by visiting the new GCSAA website here today!

Continued on next page

GCSAA partners with Columbia Sportswear for member discounts

GCSAA and Columbia Sportswear Company, an industry leader for outdoor apparel and products, have joined in a partnership to bring savings to association members and their facilities. Columbia is offering a 50 percent discount to GCSAA members on outdoor wear purchases.

[Read more](#)

Upcoming FREE webcasts:

May 2

[BMPs - Going to the Press: What Needs to be Done?](#)

J. Bryan Unruh, Ph.D., and Stacey Kingsbury

May 17

[Telling Your Story...Why Bother?](#)

John C. Fech

Again, if I can be of any assistance, please feel free to contact me.

Kevin Doyle

GCSAA Field Staff

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007/Declaration Greens Height Bentgrass, Pure Performance Fairway Height Bentgrass & Shortcut Black Beauty coming soon!

GET TO KNOW THE SUPERINTENDENT

Ed Gianni, CGCS – Country Club of Halifax

What is your favorite TV show of all time? Hogan's Heroes

Favorite movie What else "Caddy Shack"

Favorite actor and actress Tom Hanks and Rene Russo

Favorite music group Green Day

Favorite vacation spot Coastal Maine

Favorite sports team Patriots

Favorite food to eat Seafood

Favorite beverage Micro Brews

Favorite restaurant Anything in the North End

What are your hobbies other than golf? Skiing

Besides Cape area courses, what is your favorite course you have played? The Country Club

Bucket list of a few courses you would like to play Augusta

How many states have you played golf in? 10

If you knew you could only play one more round of golf, who would you choose to fill your foursome? My son, brother and a close friend

Who would be in your ultimate foursome? Rory, Tom Brady, Fred Couples

Any pets Dog, Ringo

Do they go to work with you? Yes

Any projects lined up for your course in the near future? Lots of tree removal

Did Tom Brady have knowledge or have anything to do with the low psi in the footballs? No



GET TO KNOW THE SUPERINTENDENT

Jay McGrail, South Shore Country Club

What is your favorite TV show of all time? Homeland at the moment 😊

Favorite music group All Country

Favorite vacation spot Turks and Caicos

Favorite sports team Pats

Favorite food to eat Chinese

What are your hobbies other than golf? Skiing, coaching lacrosse

Besides Cape area courses, what is your favorite course you have played? Hyannisport

Any pets Two dogs

Do they go to work with you? Yes

Did Tom Brady have knowledge or have anything to do with the low psi in the footballs?

Absolutely and I'm proud of it!





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DEP Water Withdrawal Permit Renewal Mitigation: Becoming a Certified Audubon Sanctuary - Some Suggestions to Prepare for this NEW requirement

*By Sarah W. Stearns, PWS, Beals and Thomas, Inc.,
GCSANE/GCSACC Affiliate Member and Patron*

As most of us involved in this industry are aware, DEP is currently in the process of renewing Water Withdrawal Permits for users of 100,000gpd or more. DEP has indicated in their recent presentations, that “indirect mitigation” may be required for an increased withdrawal above a calculated, established baseline, specific to your individual course use.

As part of this renewal process, DEP has begun to include a new mitigation option for water withdrawal permit holders: certification through the Audubon Certified Sanctuary Program (ACSP) for golf courses. (<http://www.auduboninternational.org/acspgolf>) This program, intended to publicly recognize certified golf courses as good environmental stewards, requires categorical documentation of maintenance practices and a thorough description and quantification of your ecological stewardship. There are numerous components to this process and many of these components can be laborious and time consuming, so it’s best to plan ahead!

Currently, DEP is requiring certification in three out of six categories of the ACSP to meet this mitigation criterion. If your course requires indirect mitigation and chooses this option, it will be discussed with you during the draft phase and included in your final permit. Mitigation is complete when your course has been certified in the three categories. ACSP membership and certification will need to be maintained to comply with your water withdrawal permit.

If you think this ACSP certification may pertain to your water withdrawal permit renewal, here are some of the most time consuming requirements for each category. In order to get a head start on certification, we suggest starting these right away:

- **Category 1: Environmental Planning (required for all applicants):**
 - a. Documentation of recent projects (i.e. renovation projects; creation of low-maintenance areas; invasive species eradication efforts, etc.)
 - b. Educational projects (benefiting your membership or the public)
 - c. List of staff and members willing to be part of a Resource Advisory Group
- **Categories 2 and 3: Courses may choose two from the following options:**
 - a. *Wildlife and Habitat Management*
 - Wildlife and/or Plant Inventory
 - Photographs of diverse wildlife habitat throughout your course (forested, prairie, wetlands, waterways, etc.)
 - Habitat Inventory Map
 - Documentation of wildlife structure monitoring (i.e. nest boxes)

b. *Chemical Use Reduction and Safety*

- Photographs of storage areas
- Records (controls implemented for disease, insects, weeds, etc.)

c. *Water Conservation*

- Water use discussion/records
- Water conservation methods

d. *Water Quality Management*

- Water feature information
- Water quality testing

e. *Outreach and Education**

- Resource Advisory Group development
- Coordination of educational/outreach projects
- *Outreach and Education is currently not an accepted certification category by DEP since it is not strictly related to water use. If your club wants to continue to apply for the remaining categories and become fully ACSP certified, it is at your own discretion.



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30th Annual John O'Connell Scholarship and Research Tournament

Wednesday, May 31, 2017

Cummaquid Golf Club
35 Marstons Lane, Cummaquid, MA 02637

Host: Dana Hancock

Schedule of Events

11:00 am:	Registration
11:45 am:	Buffet Lunch
1:00 pm:	Golf
Dinner and Prizes to follow golf	

Format: Two Man Team; Best Ball with Gross and Net prizes Foursomes are also welcome.
Field is limited.

Cost: \$225.00 per player, \$450 for a twosome

Dress: Proper golf attire for tournament. Jacket is required for dinner.

Reservations due by Monday, May 15, 2017.

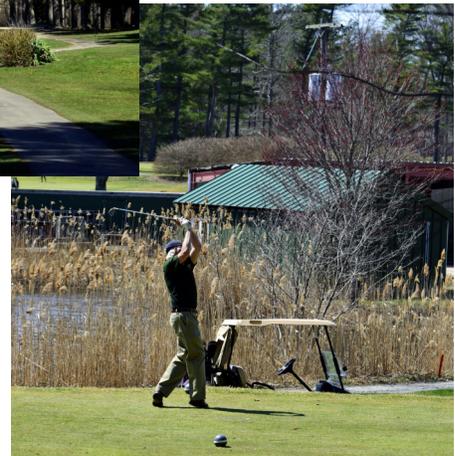
You can also register and pay online at www.gcsacc.org

We are also looking for sponsors for this event along with raffle prize donations.

- The sponsorship levels are bronze for \$150, silver for \$250, gold for \$500 and platinum for \$1000. You can also pay online at www.gcsacc.org
- Raffle prizes can consist of a donation of a gift certificate for a golf foursome with carts, a gift certificate to a pro shop, club or company merchandise, gift certificate from a local business/restaurant or other prizes.

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